

Notice of Allowability

Application No.

09/940,132

Examiner

Jacques Veillard

Applicant(s)

PREDA ET AL.

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/9/2005.
2. ☒ The allowed claim(s) is/are 5,6,8 and 23-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

CHARLES RONES

SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. This action is responsive to the Applicant's amendment filed on 11/09/2005.
2. Claims 1-4, 9-17, 19-22 have been canceled, and claims 23, 25 have been amended.
3. Claims 5-8, 18, and 23-39 are pending and presented for examination.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frank R. Occhiuti (Reg. # 35,306) the undersigned for applicant(s) on December 12, 2005.

The application has been amended as follows:

In the claims

5. (Currently Amended) A method for updating importance rank of Internet Web units in an Internet; the importance ranks are used by an application; the Internet includes Hyper-links interconnecting the Web units; the method comprising the steps of:

- a) updating the importance rank of Web units in the Internet substantially in real time during visit of the Web units; and applying corrective measures; an order of visit of nodes is prescribed by an algorithm;
- b) repeating step (a) as many times as required; said updating of importance rank of step (a) is capable of being executed also when the Internet is changing,

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and wherein an algorithm that governs the order of visit of nodes is not prescribed ~~by said~~ by said updating and applying correction steps;

obtaining other rank of the Web units; and

combining said importance rank and other rank for each Web unit giving rise to a composite rank of the respective Web unit.

6. (Currently Amended) The method according to Claim [1] 5, wherein said updating is conned to selected Web units in the Internet, constituting a sub-graph of the internet.

7. (Canceled)

8. (Currently Amended) The method according to Claim [7] 5, wherein said other rank being a text based rank.

18. (Canceled)

25. (Currently amended) A method for calculating the importance rank of nodes in a dynamically changing graph, the importance ranks are used by an application; the graph includes links interconnecting the nodes; the method comprising the steps of:

a) providing for each node in the graph at least:

(iii) short history indication representative of what happened to the node in terms of importance rank since last update;

(iv) long history indication representative of what happened to the node in terms of importance rank since a certain point of time in the past;

d) b) selecting node in the graph;

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e) c) for selected node, computing the importance rank: as a function of at least one of said short history indication and long history indication;

d) repeating steps (b) and (c) as many times as required, wherein said graph includes the Internet or portion thereof, said links being hyperlinks, said nodes being Web units, and further including: sorting visited Web units on the basis of at least their importance rank; and

said application modifying visiting strategy which prescribe which Web units are selected in said step (b), such that the higher the importance rank the more often the Web unit is visited.

Allowable Subject Matter

5. Claims 5, 6, 8, and 23-39 are allowed over the prior art made of record.

Reasons for Indicating Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that:

a) --obtaining other rank of the Web units; and combining the importance rank and other rank for each Web unit giving rise to a composite rank of the respective Web unit— in the method of claim 5 for updating importance rank of Internet Web units in an Internet environment wherein the Internet includes Hyper-links interconnecting the Web units, in context with the other limitations of the claims was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

b) -- providing for each node in the graph a storing step for storing at least a short history indication representing the history of what happened to the node in terms of importance rank since last update; a long history indication representing the history of what happened to the node in terms of importance rank since a certain point of time in the past; including a visiting process wherein the visiting node has at least one child node for distributing at least substantial part of the short history, and a recording process that records at least substantial part of the short history indication of the visited node to the long history indication of the visited node and designating that the recording has been accomplished-- as embodied in the independent claims 23, 25, 28, 31, 38, and 39, in context with the other limitations of the claims and as further described in the specification on page 20, line 23 through page 23, line 26 et alia was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

c) the steps of --selectively applying corrective measures for updating the importance rank of nodes in the graph substantially in real time during visit of nodes in the graph when the graph is changing by a processor if the graph is not strongly connected; and prescribed an algorithm for the order of visit of nodes wherein an algorithm that governs the order of visit of nodes is not prescribed by the updating and applying corrective measures operations of the processor-- as embodied in the independent claims 26, 27, 36 and 37, in context with the other limitations of the claims and as further described in the specification on page 14, lines 4-30 and page 15, line 21 through page 16, line 30 et alia was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Points of contact

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques Veillard whose telephone number is (571) 272-4086. The examiner can normally be reached on Mon. to Fri. from 9 AM to 4:30 PM, alt. Fri. off..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on (571) 272- 4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.V
Jacques Veillard
Patent Examiner AU 2165


CHARLES RONES
SUPERVISORY PATENT EXAMINER

December 14, 2005